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New Engine Developments to Reduce CO₂ Emissions from Peugeot and Citroën Vehicles

Already the European leader in automotive carbon reduction, PSA Peugeot Citroën is pursuing its engine development programmes in a commitment to offering customers vehicles that deliver optimised performance in the area of CO₂ emissions and fuel efficiency.

The programmes are currently focusing on the 92 and 115-bhp 1.6-litre HDi diesel engines produced at the plant in Trémery, France. To improve their fuel efficiency and reduce their carbon emissions by around 6%, these engines have been upgraded with the following new technologies:

- **A new variable displacement oil pump**, which helps to lower torque demand on the engine to the strict minimum.
- **New low-viscosity engine oils and transmission fluids**, which reduce friction loss.
- **New generation crankshaft gaskets** that also ease friction by reducing clamping force.
- **A distributor belt pulley redesigned** to reduce belt tension.
- **A low-friction vacuum pump** to prevent energy loss.

These improvements will now gradually be fitted on a wide range of Peugeot and Citroën models equipped with the 1.6-litre HDi engine, such as the Citroën C4 Picasso, Citroën C3 and Peugeot 208.

Combined with other enhancements specific to each vehicle, they will enable widely marketed models to earn low CO₂ ratings and therefore be eligible for tax incentives in a large number of European countries. In this way, these developments offer consumers an additional rebate on purchase and businesses a tax reduction on company cars. In addition, these cars will be significantly more fuel efficient.

In first-half 2012, PSA Peugeot Citroën was the European leader in carbon reduction, with corporate average emissions of 124.5g CO₂/km.

During the period, Group vehicles emitting less than 111g CO₂/km accounted for 22.1% of the European market, while vehicles emitting less than 121g CO₂/km accounted for 16%.

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